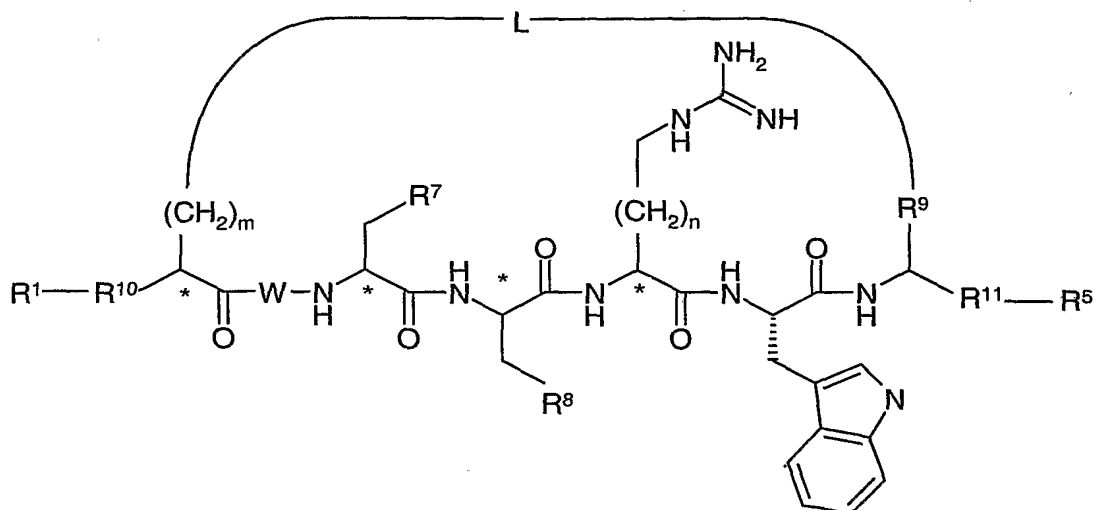


**WHAT IS CLAIMED IS:**

1. A method of inducing weight loss in a patient, comprising administering by continuous infusion an effective amount of an MC4R agonist peptide to a patient in need thereof.
2. A method for treating obesity in a patient, comprising administering by continuous infusion an effective amount of an MC4R agonist peptide to a patient in need thereof.
3. The method of any one of Claims 1 to 2, wherein the MC4R agonist peptide is administered using a pump.
4. The method of any one of Claims 1 to 2, wherein the MC4R agonist peptide is administered using a depot.
5. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is a peptide of the formula:

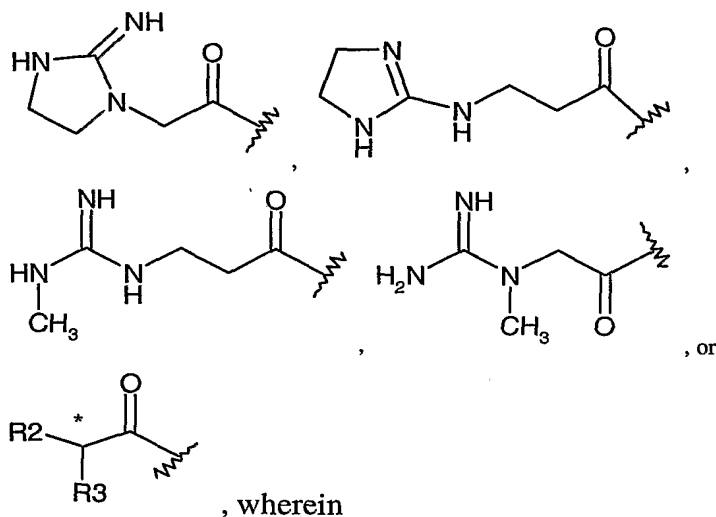


and pharmaceutically acceptable salts thereof, wherein

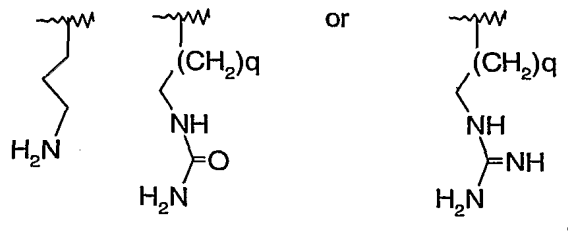
W is Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, Lys, Leu, Cya, or is absent;

-26-

$R^1$  is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NHC(NH)NH<sub>2</sub>, Tyr-βArg-, Ac-Tyr-β-hArg-, gluconoyl-Tyr-Arg-, Ac-diaminobutyryl-, Ac-diaminopropionyl-, N-propionyl-, N-butyryl-, N-valeryl-, N-methyl-Tyr-Arg-, N-glutaryl-Tyr-Arg-, N-succinyl-Tyr-Arg-,  $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)-,  $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)Arg-,  $R^6$ -SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(O)-, C<sub>3</sub>-C<sub>7</sub> cycloalkylcarbonyl, phenylsulfonyl, C<sub>8</sub>-C<sub>14</sub> bicyclic arylsulfonyl, phenyl-(CH<sub>2</sub>)<sub>q</sub>C(O)-, C<sub>8</sub>-C<sub>14</sub> bicyclic aryl-(CH<sub>2</sub>)<sub>q</sub>C(O)-,



$R^2$  is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -NH-TyrC(O)CH<sub>3</sub>,  $R^6$ SO<sub>2</sub>NH-, Ac-Cya-NH-, Tyr-NH-, HO-(C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>CH<sub>2</sub>C(O)NH-, or CH<sub>3</sub>-(C<sub>6</sub>H<sub>5</sub>)-C(O)CH<sub>2</sub>CH<sub>2</sub>C(O)NH-;  
 $R^3$  is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, NH<sub>2</sub>-CH<sub>2</sub>-(CH<sub>2</sub>)<sub>q</sub>-, HO-CH<sub>2</sub>-, (CH<sub>3</sub>)<sub>2</sub>CHNH(CH<sub>2</sub>)<sub>4</sub>-,  $R^6$ (CH<sub>2</sub>)<sub>q</sub>-,  $R^6$ SO<sub>2</sub>NH-, Ser, Ile,



$q$  is 0, 1, 2, or 3;

$R^6$  is a phenyl or C<sub>8</sub>-C<sub>14</sub> bicyclic aryl;

$m$  is 1 or 2;

-27-

n is 1, 2, 3, or 4;

$R^9$  is  $(CH_2)_p$  or  $(CH_3)_2C-$ ;

p is 1 or 2;

$R^{10}$  is  $NH-$  or is absent;

$R^7$  is a 5- or 6-membered heteroaryl or a 5- or 6-membered heteroaryl ring optionally substituted with  $R^4$ ;

$R^4$  is H,  $C_1$ - $C_4$  straight or branched alkyl, phenyl, benzyl, or  $(C_6H_5)-CH_2-O-CH_2-$ ;

$R^8$  is phenyl, a phenyl ring optionally substituted with X, or cyclohexyl;

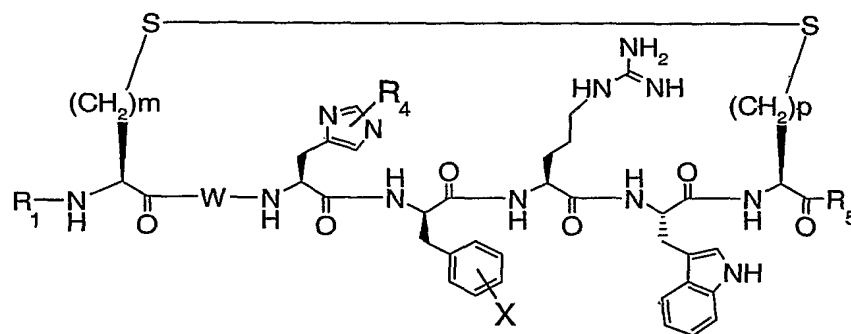
X is H, Cl, F, Br, methyl, or methoxy;

$R^{11}$  is  $-C(O)$  or  $-CH_2$ ;

$R^5$  is  $-NH_2$ ,  $-OH$ , glycinol,  $NH_2$ -Pro-Ser-,  $NH_2$ -Pro-Lys-, HO-Ser-, HO-Pro-Ser-, HO-Lys-, -Ser alcohol, -Ser-Pro alcohol, -Lys-Pro alcohol,  $HOCH_2CH_2-O-CH_2CH_2NH-$ ,  $NH_2$ -Phe-Arg-,  $NH_2$ -Glu-,  $NH_2CH_2RCH_2NH-$ ,  $RHN-$ , or  $RO-$  where R is a  $C_1$ - $C_4$  straight or branched alkyl; and

L is  $-S-S-$  or  $-S-CH_2-S-$ .

6. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is a peptide of the formula:



and pharmaceutically acceptable salts thereof, wherein

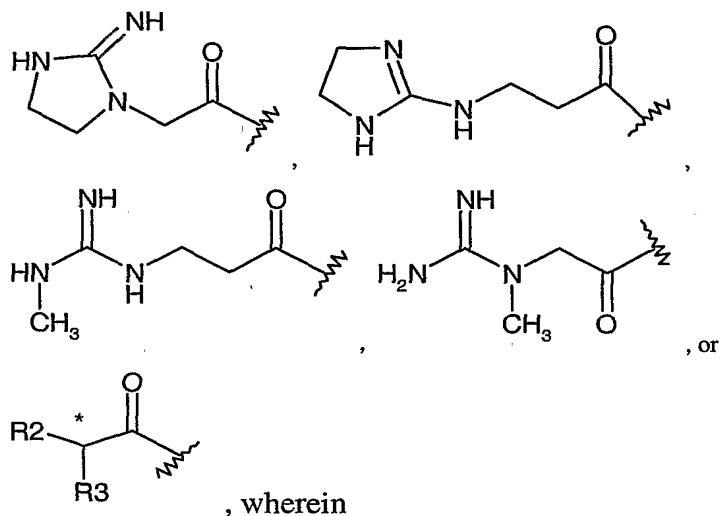
W is Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, Lys, Leu, Cys, or is absent;

$R^1$  is  $-H$ ,  $-C(O)CH_3$ ,  $-C(O)(CH_2)_{1-4}CH_3$ ,  $-C(O)(CH_2)_{1-4}NHC(NH)NH_2$ ,

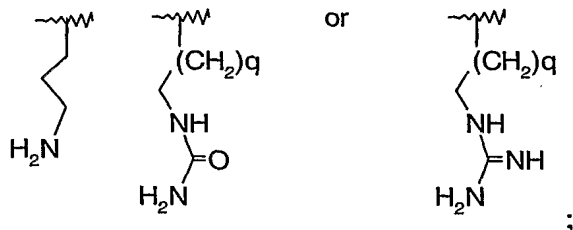
Tyr- $\beta$ Arg-, Ac-Tyr- $\beta$ -hArg-, gluconoyl-Tyr-Arg-, Ac-diaminobutyryl-,

-28-

Ac-diaminopropionyl-, N-propionyl-, N-butyryl-, N-valeryl-,  
 N-methyl-Tyr-Arg-, N-glutaryl-Tyr-Arg-, N-succinyl-Tyr-Arg-,  
 $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)-,  $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)Arg-,  
 $R^6$ -SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(O)-, C<sub>3</sub>-C<sub>7</sub> cycloalkylcarbonyl, phenylsulfonyl,  
 C<sub>8</sub>-C<sub>14</sub> bicyclic arylsulfonyl, phenyl-(CH<sub>2</sub>)<sub>q</sub>C(O)-, C<sub>8</sub>-C<sub>14</sub> bicyclic  
 aryl-(CH<sub>2</sub>)<sub>q</sub>C(O)-,



$R^2$  is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>,  
 -NH-TyrC(O)CH<sub>3</sub>,  $R^6$ SO<sub>2</sub>NH-, Ac-Cya-NH-, Tyr-NH-,  
 HO-(C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>CH<sub>2</sub>C(O)NH-, or CH<sub>3</sub>-(C<sub>6</sub>H<sub>5</sub>)-C(O)CH<sub>2</sub>CH<sub>2</sub>C(O)NH-;  
 $R^3$  is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, NH<sub>2</sub>-CH<sub>2</sub>-(CH<sub>2</sub>)<sub>q</sub>-, HO-CH<sub>2</sub>-,  
 (CH<sub>3</sub>)<sub>2</sub>CHNH(CH<sub>2</sub>)<sub>4</sub>-,  $R^6$ (CH<sub>2</sub>)<sub>q</sub>-,  $R^6$ SO<sub>2</sub>NH-, Ser, Ile,



q is 0, 1, 2, or 3;

$R^6$  is a phenyl or C<sub>8</sub>-C<sub>14</sub> bicyclic aryl;

m is 1 or 2;

p is 1 or 2;

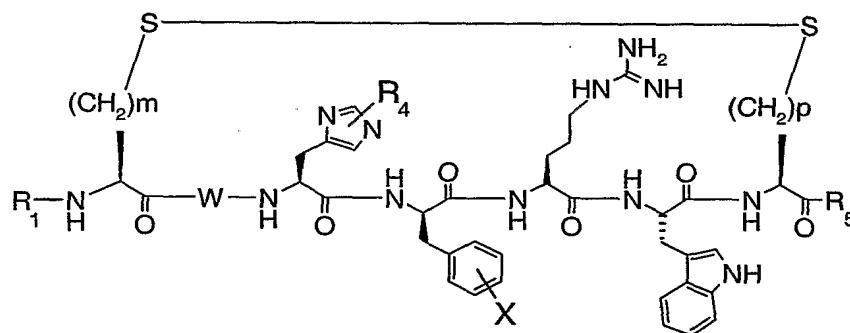
-29-

$R^4$  is H,  $C_1$ - $C_4$  straight or branched alkyl, phenyl, benzyl, or  $(C_6H_5)-CH_2-O-CH_2-$ ;

X is H, Cl, F, Br, methyl, or methoxy; and

$R^5$  is  $-NH_2$ ,  $-OH$ , glycinol,  $NH_2$ -Pro-Ser-,  $NH_2$ -Pro-Lys-, HO-Ser-, HO-Pro-Ser-, HO-Lys-, -Ser alcohol, -Ser-Pro alcohol, -Lys-Pro alcohol,  $HOCH_2CH_2-O-CH_2CH_2NH-$ ,  $NH_2$ -Phe-Arg-,  $NH_2$ -Glu-,  $NH_2CH_2RCH_2NH-$ ,  $RHN-$ , or  $RO-$  where R is a  $C_1$ - $C_4$  straight or branched alkyl.

7. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is a peptide of the formula:

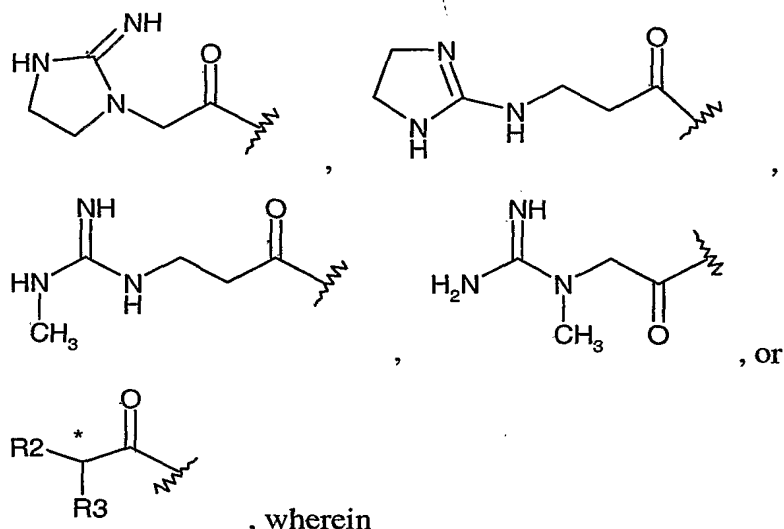


and pharmaceutically acceptable salts thereof, wherein

W is a single bond, Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, or Phe;

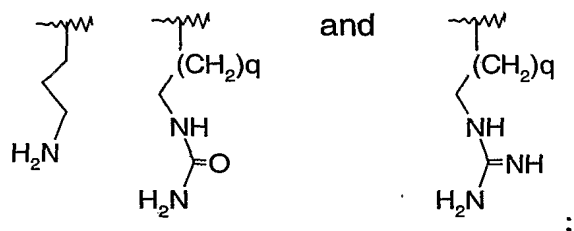
$R_1$  is  $-H$ ,  $-C(O)CH_3$ ,  $-C(O)(CH_2)_{1-4}NH-C(NH)NH_2$ , Tyr- $\beta$ Arg, gluconoyl-Tyr-Arg, Ac-Dab, Ac-Dap, N-succinyl-Tyr-Arg, N-propionyl, N-valeryl, N-glutaryl-Tyr-Arg, N-butyryl,

-30-



$R_2$  is -H,  $-NH_2$ ,  $-NHC(O)CH_3$ ,  $-NHC(O)(CH_2)_{1-4}CH_3$ , Tyr, or  $-NH-Tyr-C(O)CH_3$ ;

$R_3$  is  $C_1$ - $C_4$  straight or branched alkyl, Ser, Ile, Arg,



$q$  is 0, 1, 2, or 3;

$m$  is 1 or 2;

$p$  is 1 or 2;

$R_4$  is -H,  $-CH_3$ , or  $-(CH_2)_{1-3}(CH_3)$ ;

$X$  is -H, -Cl, -F, -Br, methyl, or methoxy; and

$R_5$  is  $-NH_2$ , -OH, glycinol, -Ser-Pro- $NH_2$ , -Lys-Pro- $NH_2$ , -Ser-OH,

-Ser-Pro-OH, -Lys-Pro-OH, -Arg-Phe- $NH_2$ , -Glu- $NH_2$ , -NHR, or

-OR, where R is  $-CH_3$  or  $-(CH_2)_{1-3}(CH_3)$ .

8. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is cyclo[hCys-His-D-Phe-Arg-Trp-Cys]- $NH_2$ ,  
 Ac-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]- $NH_2$ ,  
 Arg-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-OH,

Ac-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>, or  
 Ac-D-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>.

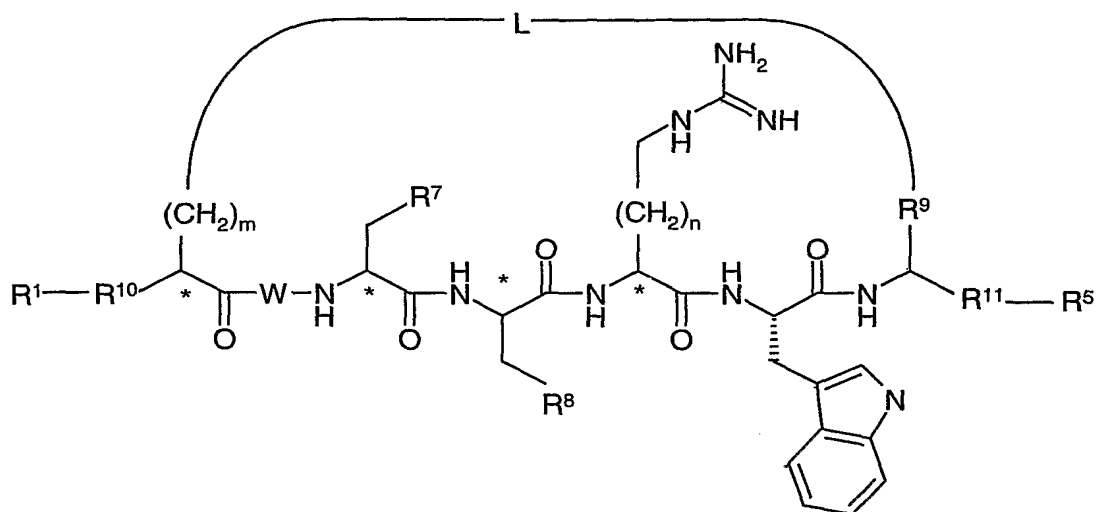
9. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is Ac-D-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>.

10. Use of an MC4R agonist peptide for the manufacture of a medicament for the treatment of obesity, wherein the medicament is administered by continuous infusion.

11. The use of Claim 10, wherein the medicament is administered using a pump.

12. The use of Claim 10, wherein the medicament is administered using a depot.

13. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is a peptide of the formula:

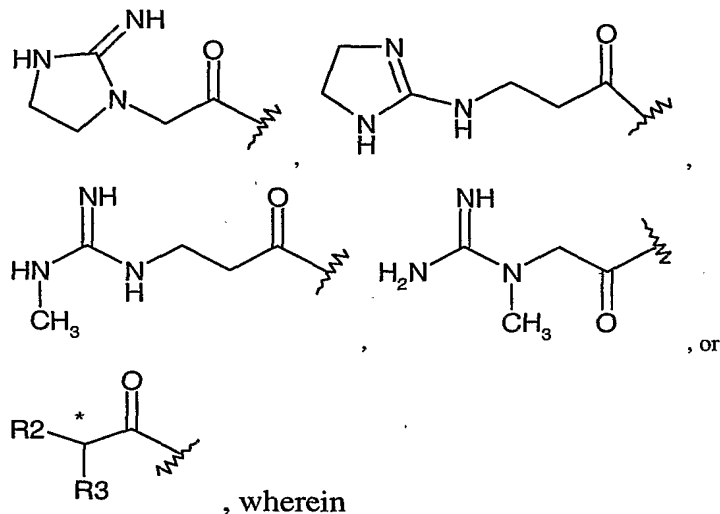


and pharmaceutically acceptable salts thereof, wherein

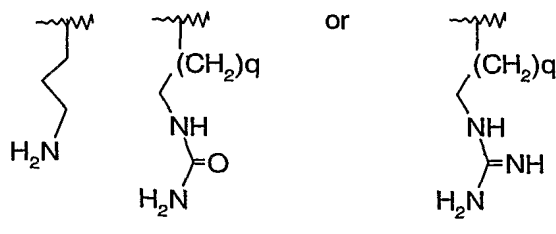
W is Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, Lys, Leu, Cya, or is absent;

-32-

$R^1$  is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NHC(NH)NH<sub>2</sub>, Tyr-βArg-, Ac-Tyr-β-hArg-, gluconoyl-Tyr-Arg-, Ac-diaminobutyryl-, Ac-diaminopropionyl-, N-propionyl-, N-butyryl-, N-valeryl-, N-methyl-Tyr-Arg-, N-glutaryl-Tyr-Arg-, N-succinyl-Tyr-Arg-,  $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)-,  $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)Arg-,  $R^6$ -SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(O)-, C<sub>3</sub>-C<sub>7</sub> cycloalkylcarbonyl, phenylsulfonyl, C<sub>8</sub>-C<sub>14</sub> bicyclic arylsulfonyl, phenyl-(CH<sub>2</sub>)<sub>q</sub>C(O)-, C<sub>8</sub>-C<sub>14</sub> bicyclic aryl-(CH<sub>2</sub>)<sub>q</sub>C(O)-,



$R^2$  is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -NH-TyrC(O)CH<sub>3</sub>,  $R^6$ SO<sub>2</sub>NH-, Ac-Cya-NH-, Tyr-NH-, HO-(C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>CH<sub>2</sub>C(O)NH-, or CH<sub>3</sub>-(C<sub>6</sub>H<sub>5</sub>)-C(O)CH<sub>2</sub>CH<sub>2</sub>C(O)NH-;  
 $R^3$  is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, NH<sub>2</sub>-CH<sub>2</sub>-(CH<sub>2</sub>)<sub>q</sub>-, HO-CH<sub>2</sub>-, (CH<sub>3</sub>)<sub>2</sub>CHNH(CH<sub>2</sub>)<sub>4</sub>-,  $R^6$ (CH<sub>2</sub>)<sub>q</sub>-,  $R^6$ SO<sub>2</sub>NH-, Ser, Ile,



$q$  is 0, 1, 2, or 3;

$R^6$  is a phenyl or C<sub>8</sub>-C<sub>14</sub> bicyclic aryl;

$m$  is 1 or 2;



-33-

n is 1, 2, 3, or 4;

R<sup>9</sup> is (CH<sub>2</sub>)<sub>p</sub> or (CH<sub>3</sub>)<sub>2</sub>C-;

p is 1 or 2;

R<sup>10</sup> is NH- or is absent;

R<sup>7</sup> is a 5- or 6-membered heteroaryl or a 5- or 6-membered heteroaryl ring optionally substituted with R<sup>4</sup>;

R<sup>4</sup> is H, C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, phenyl, benzyl, or (C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-O-CH<sub>2</sub>-;

R<sup>8</sup> is phenyl, a phenyl ring optionally substituted with X, or cyclohexyl;

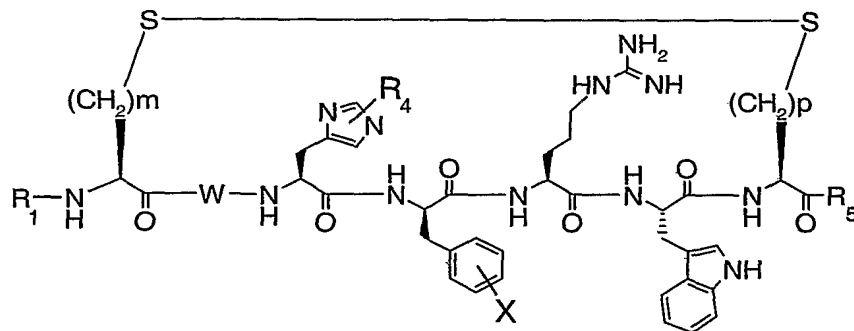
X is H, Cl, F, Br, methyl, or methoxy;

R<sup>11</sup> is -C(O) or -CH<sub>2</sub>;

R<sup>5</sup> is -NH<sub>2</sub>, -OH, glycinol, NH<sub>2</sub>-Pro-Ser-, NH<sub>2</sub>-Pro-Lys-, HO-Ser-, HO-Pro-Ser-, HO-Lys-, -Ser alcohol, -Ser-Pro alcohol, -Lys-Pro alcohol, HOCH<sub>2</sub>CH<sub>2</sub>-O-CH<sub>2</sub>CH<sub>2</sub>NH-, NH<sub>2</sub>-Phe-Arg-, NH<sub>2</sub>-Glu-, NH<sub>2</sub>CH<sub>2</sub>RCH<sub>2</sub>NH-, RHN-, or RO- where R is a C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl; and

L is -S-S- or -S-CH<sub>2</sub>-S-.

14. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is a peptide of the formula:



and pharmaceutically acceptable salts thereof, wherein

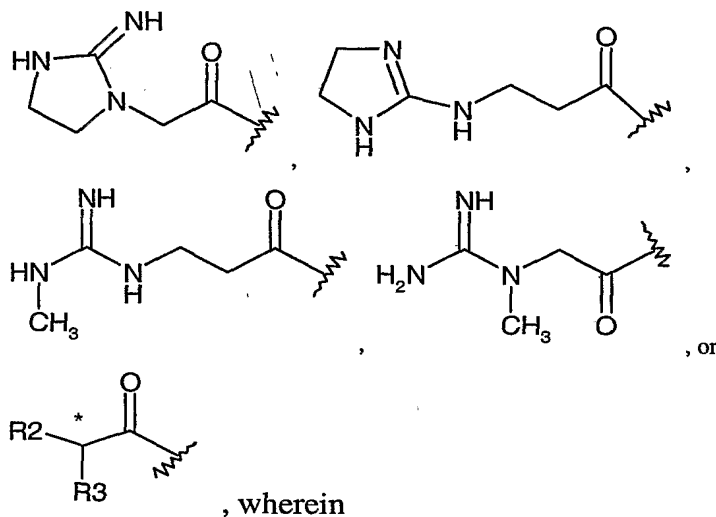
W is Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, Lys, Leu, Cya, or is absent;

R<sup>1</sup> is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NHC(NH)NH<sub>2</sub>,

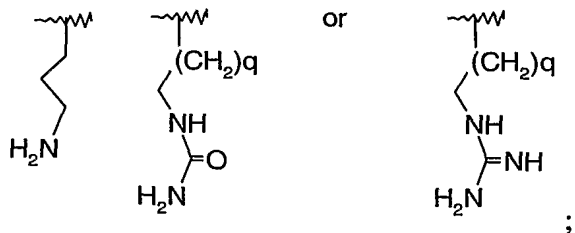
Tyr-βArg-, Ac-Tyr-β-hArg-, gluconoyl-Tyr-Arg-, Ac-diaminobutyl-,

-34-

Ac-diaminopropionyl-, N-propionyl-, N-butyl-, N-valeryl-,  
 N-methyl-Tyr-Arg-, N-glutaryl-Tyr-Arg-, N-succinyl-Tyr-Arg-,  
 $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)-,  $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)Arg-,  
 $R^6$ -SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(O)-, C<sub>3</sub>-C<sub>7</sub> cycloalkylcarbonyl, phenylsulfonyl,  
 C<sub>8</sub>-C<sub>14</sub> bicyclic arylsulfonyl, phenyl-(CH<sub>2</sub>)<sub>q</sub>C(O)-, C<sub>8</sub>-C<sub>14</sub> bicyclic  
 aryl-(CH<sub>2</sub>)<sub>q</sub>C(O)-,



$R^2$  is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>,  
 -NH-TyrC(O)CH<sub>3</sub>,  $R^6$ SO<sub>2</sub>NH-, Ac-Cya-NH-, Tyr-NH-,  
 HO-(C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>CH<sub>2</sub>C(O)NH-, or CH<sub>3</sub>-(C<sub>6</sub>H<sub>5</sub>)-C(O)CH<sub>2</sub>CH<sub>2</sub>C(O)NH-;  
 $R^3$  is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, NH<sub>2</sub>-CH<sub>2</sub>-(CH<sub>2</sub>)<sub>q</sub>-, HO-CH<sub>2</sub>-,  
 (CH<sub>3</sub>)<sub>2</sub>CHNH(CH<sub>2</sub>)<sub>4</sub>-,  $R^6$ (CH<sub>2</sub>)<sub>q</sub>-,  $R^6$ SO<sub>2</sub>NH-, Ser, Ile,



$q$  is 0, 1, 2, or 3;

$R^6$  is a phenyl or C<sub>8</sub>-C<sub>14</sub> bicyclic aryl;

$m$  is 1 or 2;

$p$  is 1 or 2;

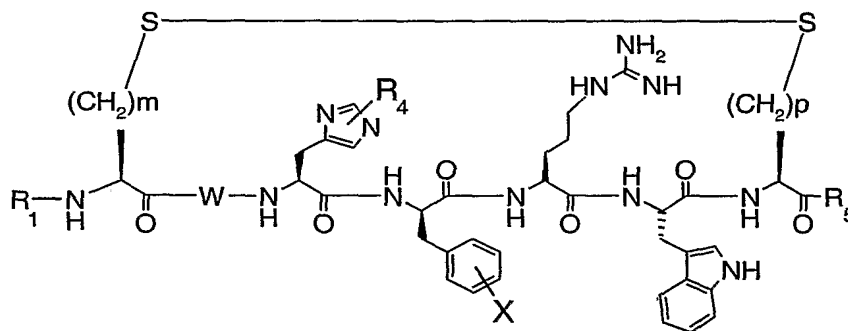
-35-

$R^4$  is H,  $C_1$ - $C_4$  straight or branched alkyl, phenyl, benzyl, or  $(C_6H_5)-CH_2-O-CH_2-$ ;

X is H, Cl, F, Br, methyl, or methoxy; and

$R^5$  is  $-NH_2$ ,  $-OH$ , glycinol,  $NH_2$ -Pro-Ser-,  $NH_2$ -Pro-Lys, HO-Ser-, HO-Pro-Ser-, HO-Lys-, -Ser alcohol, -Ser-Pro alcohol, -Lys-Pro alcohol,  $HOCH_2CH_2-O-CH_2CH_2NH-$ ,  $NH_2$ -Phe-Arg-,  $NH_2$ -Glu-,  $NH_2CH_2RCH_2NH-$ ,  $RHN-$ , or  $RO-$  where R is a  $C_1$ - $C_4$  straight or branched alkyl.

15. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is a peptide of the formula:

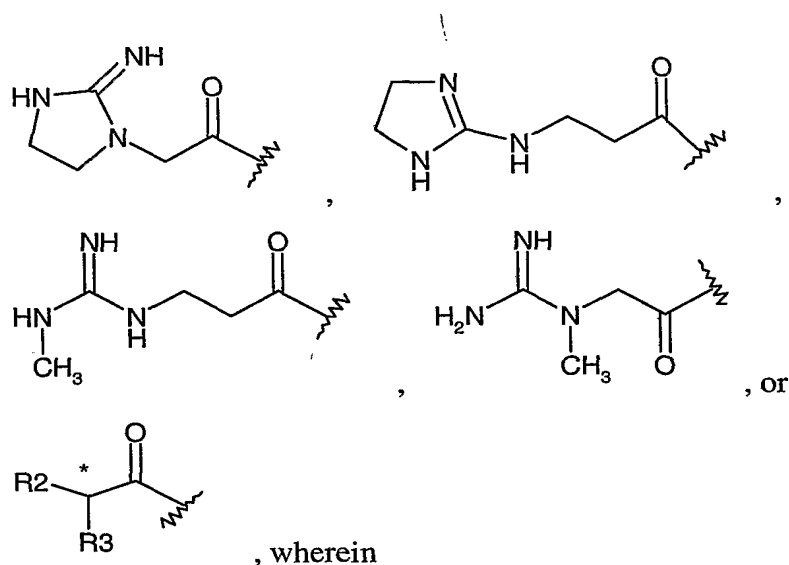


and pharmaceutically acceptable salts thereof, wherein

W is a single bond, Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, or Phe;

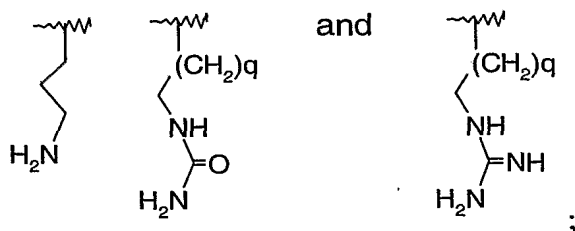
$R_1$  is  $-H$ ,  $-C(O)CH_3$ ,  $-C(O)(CH_2)_{1-4}NH-C(NH)NH_2$ , Tyr- $\beta$ Arg, gluconoyl-Tyr-Arg, Ac-Dab, Ac-Dap, N-succinyl-Tyr-Arg, N-propionyl, N-valeryl, N-glutaryl-Tyr-Arg, N-butyryl,

-36-



R<sub>2</sub> is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, Tyr, or -NH-Tyr-C(O)CH<sub>3</sub>;

R<sub>3</sub> is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, Ser, Ile, Arg,



q is 0, 1, 2, or 3;

m is 1 or 2;

p is 1 or 2;

R<sub>4</sub> is -H, -CH<sub>3</sub>, or -(CH<sub>2</sub>)<sub>1-3</sub>(CH<sub>3</sub>);

X is -H, -Cl, -F, -Br, methyl, or methoxy; and

R<sub>5</sub> is -NH<sub>2</sub>, -OH, glycinol, -Ser-Pro-NH<sub>2</sub>, -Lys-Pro-NH<sub>2</sub>, -Ser-OH, -Ser-Pro-OH, -Lys-Pro-OH, -Arg-Phe-NH<sub>2</sub>, -GluNH<sub>2</sub>, -NHR, or -OR, where R is -CH<sub>3</sub> or -(CH<sub>2</sub>)<sub>1-3</sub>(CH<sub>3</sub>).

16. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>,  
Ac-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>,  
Arg-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-OH,

-37-

Ac-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>, or  
Ac-D-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>.

17. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is Ac-D-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>.